	Application No.	Applicant(s)
Notice of Allowability	10/520.729	SALOMA ET AL.
	Examiner	Art Unit
	Minh N. Tang	2829
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS		
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to 12/09/2005.		
2. The allowed claim(s) is/are 1,4,5 and 7-13.		
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  a) ☐ All b) ☐ Some* c) ☐ None of the:		
1. Certified copies of the priority documents have been received.		
2. Certified copies of the priority documents have been received in Application No.		
3. Copies of the certified copies of the priority documents have been received in this national stage application from the		
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.  THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.		
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached		
1)  hereto or 2)  to Paper No./Mail Date		
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date		
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).		
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.</li> </ol>		
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal P	Patent Application
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),
3. ⊠ Information Disclosure Statements (PTO/SB/08),	Paper No./Mail Da 7.	
Paper No./Mail Date 12/9/05  4. Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Stateme	ent of Reasons for Allowance
of Biological Material	9.	
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## **DETAILED ACTION**

1. The information disclosure statement (IDS) submitted on December 09, 2005 is in compliance with the provisions of 37 CFR 1.97. Accordingly, the information disclosure statement is being considered by the examiner.

- 2. The Preliminary Amendment to the specification filed on January 07, 2005 has been entered.
- 3. The Preliminary Amendment to the claims filed on February 17, 2006 has been entered.
- 4. Claims 1, 4-5 and 7-13 are allowed over the art of record.
- 5. The following is an examiner's statement of reasons for allowance:

Claim 1 recites, inter alia, a method of high contrast imaging of semiconductor and metallic sites in an integrated circuit that simultaneously produces two separate exclusive high-contrast images of said IC from one light source, the method comprising producing simultaneously a high-contrast confocal reflectance image  $i_r(x,y,z)$  and a low contrast one-photon optical beam-induced current image (1P-OBIC)  $i_s(x,y)$  of said IC; deriving a first exclusive high-contrast image s(x,y,z) of said semiconductor sites of said IC from a pixel to pixel product of said 1P-OBIC image and said confocal reflectance image using the equation  $s(x,y,z) = i_r(x,y,z)i_s(x,y)$  where s(x,y,z) > 0; and deriving a second exclusive high-contrast image m(x,y,z) of said metallic sites of said IC from a product of a complementary to said 1P-OBIC image and said confocal reflectance image using the equation  $m(x,y,z) = i_r(x,y,z)i_m(x,y)$  where  $i_m(x,y) = K - i_s(x,y)$  and K is a

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constant that represents the highest s(x,y,z) value that is possible for a given optical set-up.

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include the above limitations.

Claims 4-5 and 7-13 are allowed due to their dependency.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh N. Tang whose telephone number is (571) 272-1971. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ha T. Nguyen can be reached on (571) 272-1678. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a

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USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

MINH NHUT TANG

02/05/07